

SECTION 11376 - AIR DRYERS

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing refrigerated type air dryers, suitable for wall- or floor-mounting, as indicated, to provide dry, compressed air for the instrument air system, with all accessories, complete and operable.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 11370 Blowers, Compressors, and Vacuum Pumps, General
 - 2. Section 11375 Compressor Aftercoolers]

PART 2 - PRODUCTS

2.1 REFRIGERATED AIR DRYERS (Equipment No. [])

- A. **Design:** The dryer shall have a capacity of [] scfm with a 100 psig pressure dewpoint of 35 degrees F or an atmospheric dewpoint of minus 12 degrees F. Maximum pressure loss through unit shall be 5 psi. Refrigeration compressor shall be [] hp. Electric supply shall be [120-volt, 60-Hz, single-phase].
- B. **Construction:** The air dryer shall be a corrosion-resistant, self-contained unit, mounted in a steel cabinet and suitable for continuous operation. The dryer shall include a hermetically sealed refrigeration compressor, an air-cooled condenser, an evaporator, a strainer and filter unit, a moisture separator, a re-heater to prevent pipe condensation, an automatic condensate trap with drain to floor drain, a temperature sensor and switch, automatic timer, switch, starter, pressure regulator, solenoid, pressure and temperature gauges and all necessary piping, fittings, valves, and interwiring. The unit shall be suitable for an operating pressure of not less than 150 psig and for installation [indoors] [outdoors]. Inlet and outlet connections shall be []-inch. Dryers shall be ASME Code stamped.

2.2 NAMEPLATES, TOOLS, AND SPARE PARTS

- A. **Spare Parts:** The WORK includes the following spare parts:
 - 1. Two sets of all gaskets, seals, and O-rings
 - 2. Two filter cartridges
 - 3. One solenoid valve

Spare parts shall be stored in tool boxes, and identified with the equipment number by means of stainless steel or solid plastic name tags attached to the box.

2.3 MANUFACTURERS

- A. Products of the type or model indicated shall be manufactured by one of the following (or equal):

1. Deltech Engineering, Inc., Model []
2. Hankison Corporation, Model []

PART 3 - EXECUTION

3.1 INSTALLATION

- A. The air dryer(s) and equipment shall be installed in accordance with the manufacturer's written instructions.

**** END OF SECTION ****